**Electricity Culminating Practice Lab**

**Instructions:**

1. Get into groups of two.
2. Get the lab equipment
3. Start the tasks. After you complete each task show your teacher.

**Lab Equipment:**

1. Battery (in red)
2. 1 black and one red cord for the battery
3. Plastic equipment box

**Task 1**

1. Build a circuit that has the following components:
2. A battery
3. A closed switch
4. Two light bulbs in series
5. An ammeter
6. Conducting wires
7. Turn the power source on and measure the current flowing through and record it below.
8. Draw your circuit.

**Task 2**

1. Build a circuit that has the following components:
2. A battery
3. A closed switch controlling all the light bulbs
4. Two light bulbs in parallel
5. A voltmeter measuring the voltage at one of the light bulbs
6. Conducting wire
7. Turn you power source on, measure the voltage and record it below.
8. Draw a diagram of your circuit below.

**Task 3**

1. Build a circuit that has the following components:
2. A battery
3. Two light bulbs in parallel
4. Add a switch so that one of the lights bulbs is on at all time and one that can be on or off.
5. Conducting wires
6. Draw a circuit for your diagram below.

\*\*\*PUT ALL YOUR EQUIPMENT AWAY NEATLY\*\*\*